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APPLICATION NO	. FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,776		11/15/2001	Esa Turtiainen	032986-019	4500
27045	7590	02/22/2006		EXAM	INER
ERICSSO	N'INC.		GELAGAY,	GELAGAY, SHEWAYE	
6300 LEGA		E		ART UNIT	PAPER NUMBER
M/S EVR (AKTONII	FAFER NUMBER	
PLANO, T	X 75024		2137	2137	
			DATE MAILED: 02/22/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>	Anglination No.	Annii contico				
	Application No.	Applicant(s)				
Office Action Summer	10/003,776	TURTIAINEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shewaye Gelagay	2137				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 19 Ja	anuary 2006.	•				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal R 6) Other:					

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 19, 2006 has been entered.

2. Claims 1-7 are pending.

Response to Arguments

Applicant's arguments regarding Mamros or Patel do not teach "modifying the second security association by using selected components of the second protocol for providing encryption at the first node of the streamed data between the first node and second nodes" with regard to claims 1 and 5 have been considered but are moot in view of the 35 U.S.C. 112 rejections given below. Applicants argument regarding claims 2 and 7 Mamros or Patel do not teach "streamed data packets do not include IPSec headers, authentication headers (AH) and encapsulation security payload headers (ESP)" is persuasive but is moot in view of the new ground(s) of rejection.

Specification

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3. The disclosure is objected to because of the following informalities: The disclosure has Figure 6 on page 7 second paragraph, however, the drawing has only Figures 1-5. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 5. Claims 1 and 5 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claims 1 and 5 recite "modifying the second security association (SA2) by using selected components of the second protocol". The Applicant teaches entering IKE phase 2 and negotiating a pair of IPSec SAs data relevant to encryption, including a pair of encryption keys and using IKE phase 2 each time a new connection is required. The Examiner would like to point out that nowhere does the Applicant teach "modifying the second security association (SA2) by using selected components of the second protocol" in the application as filed.
- 6. Claims 2-4 and 6-7 depend from respective claims 1 and 5, hence inherit the deficiencies of claims 1 and 5, respectively.

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7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 8. Claims 2-4 and 6-7 depend from respective claims 1 and 5, hence inherit the deficiencies of claims 1 and 5, respectively.
- 9. Claims 1 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1 and 5 recite "using the first protocol to establish a first security association (SA1) over a second protocol between the first and second nodes". The limitation is ambiguous. It has been already disclosed in the previous limitation that a first protocol is used to establish SA1. It is unclear how a second protocol is used in establishing SA1. Applicant has not explained how the same SA1 is established by using the first protocol over a second protocol. It is unclear whether the first protocol or the second protocol is used in establishing SA1. Appropriate correction is required.
- 10. Claims 2-4 and 6-7 depend from respective claims 1 and 5, hence inherit the deficiencies of claims 1 and 5, respectively.
- 11. Claims 1 and 5 recite the limitation "the second security association (SA2) " in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

13. Claims 1 and 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mamros et al. (hereinafter Mamros) United States Letter Patent Number 6,360,269 in view of Patel et al. IP Security Working Group, Internet Draft, Intel Corporation (hereinafter Patel).

As per claims 1 and 5:

Mamros teach a method of sending streamed data over an IP network from a first node to a second node, the method comprising:

using a first protocol to establish a first security association (SA1) between the first and second nodes; (Col. 6, lines 9-13)

using a first protocol to establish a first security association (SA1) over a second protocol between the first nodes and second nodes; (Col. 6, lines 9-13)

modifying the second security association (SA2) by using selected components of the second protocol for providing encryption at the first node of the streamed data between the first and second node; (Col. 6, lines 2-3; for examining purposes modifying the second security association is interpreted as entering IKE phase 2 and negotiate a pair of IPSec SA data including a pair of encryption keys based on the description given in the specification, Page 6, paragraph 3)

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constructing datagrams containing segments of the encrypted streamed data in the datagram payload, the datagrams including a reduced overhead corresponding to the selected components; (Col. 5, lines 51-67 and Col. 6, lines 1-7) and

sending the datagrams from the first node to the second node. (Col. 2, lines 44-45; Col. 3, lines 15-30 and lines 45-47)

In addition, Mamros discloses sending encrypted streamed data. (Col. 1, lines 66-67 and Col. 2, line 1; Col. 6, line 2). Furthermore, Mamros disclose establishing secure and authenticated channel using ISAKMP/Oakley protocol. (Col. 6, lines 8-22)

Mamros does not explicitly disclose using first protocol to establish security association between the first node and second nodes and second protocol for providing encryption at the first node

Patel in analogous art, however, discloses using phase 1 negotiation (*is interpreted as the first protocol, the interpretation is given based on description given in the specification, page 6, paragraph 2*) to establish first security association (SA1) between the first node and second nodes (Page 1, paragraph 5; Page 2, paragraph 1) phase 2 negotiations (*is interpreted as the second protocol, the interpretation is given based on description given in the specification, page 6, paragraph 3*) for providing encryption at the first node. (Page 1, paragraph 5; page 2, paragraph 1)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the device disclosed by Mamros to include using phase 1 negotiation to establish security association between the first node and second nodes and phase 2 negotiations for providing encryption at the first node. This

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modification would have been obvious because a person having ordinary skill in the art would have been motivated to do so, as suggested by, Patel (Page 2, paragraph 2) in order to reduce a startup time for communication and improve the efficiency of the protocol.

As per claim 3:

Mamros and Patel teach all the subject matter as discussed above. In addition, Mamros further discloses a method wherein said first and second nodes are end points for the data. (Figure 1; Col. 3, lines 27-29)

As per claim 4:

Mamros and Patel teach all the subject matter as discussed above. In addition, Mamros further discloses a method wherein said first and second nodes tunnel data between respective end points. (Figure 2; Col. 3, lines 27-29)

As per claim 6:

Mamros and Patel teach all the subject matter as discussed above. In addition, Mamros further discloses an apparatus, the apparatus being an end user terminal such as a telephone, communicator, PDA or palmtop computer, or a personal computer (PC). (Figure 2; Col. 3, line 15)

14. Claims 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mamros et al. (hereinafter Mamros) United States Letter Patent Number 6,360,269 in view of Patel et al. IP Security Working Group, Internet Draft, Intel Corporation (hereinafter Patel) further in view of Dutnall United States Letter Patent Number 6,584,098.

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As per claim 2:

Mamros and Patel teach all the subject matter as discussed above. Both references do not explicitly disclose a method wherein said streamed data is VoIP data or videoconferencing data, wherein said streamed data packets do not include IPSec headers, authentication headers (AH) and encapsulation security payload (ESP) headers.

Dutnall in analogous art, however, discloses a method wherein said streamed data is VoIP data or videoconferencing data, wherein said streamed data packets do not include IPSec headers, authentication headers (AH) and encapsulation security payload (ESP) headers. (Col. 13, lines 22-28)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the device disclosed by Mamros and Patel to include a method wherein said streamed data is VoIP data or videoconferencing data, wherein said streamed data packets do not include IPSec headers, authentication headers (AH) and encapsulation security payload (ESP) headers. This modification would have been obvious because a person having ordinary skill in the art would have been motivated to do so, as suggested by, Dutnall (Col. 3, lines 51-52) in order to avoid excessive delay to a voice signal by reducing significant extra processing overhead. As per claim 7:

Mamros and Patel teach all the subject matter as discussed above. In addition,

Mamros further discloses an apparatus, the apparatus being a firewall or gateway

coupled to the first node which is the source of the streamed data. (Figure 2; Col. 3, line 23)

Both references do not explicitly disclose a method wherein the streamed data packets do not include IPSec headers, authentication headers (AH) and encapsulation security payload (ESP) headers.

Dutnall in analogous art, however, discloses a method wherein the streamed data packets do not include IPSec headers, authentication headers (AH) and encapsulation security payload (ESP) headers. (Col. 13, lines 22-28)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the device disclosed by Mamros and Patel to include a method wherein the streamed data packets do not include IPSec headers, authentication headers (AH) and encapsulation security payload (ESP) headers. This modification would have been obvious because a person having ordinary skill in the art would have been motivated to do so, as suggested by, Duntall (Col. 3, lines 51-52) in order to avoid excessive delay to a voice signal by reducing significant extra processing overhead.

- 15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See Form PTO-892.
- 16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shewaye Gelagay whose telephone number is 571-272-4219. The examiner can normally be reached on 8:00 am to 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shewaye Gelagay 55 2/17/06

EMMANUEL L. MOISE SUPERVISORY PATENT EXAMINER